

### ABSTRACT

Disclosed herein is a two-piece golf ball formed of a  
5 solid core and a cover, the solid core being formed from a  
rubber composition composed of a rubber base material of  
polybutadiene synthesized by using a catalyst of rare earth  
element, a small amount of organic peroxide, an unsaturated  
carboxylic acid and/or a metal salt thereof, an organic  
10 sulfur compound, and an inorganic filler, and the cover being  
formed mainly from a thermoplastic polyurethane material.  
The two-piece golf ball is by far superior to conventional  
ones in flying performance, cover durability, coating  
durability, and shot feeling.